

In the Claims

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3 1. **(Currently Amended)** A computer-executable method, comprising:
4 providing a pane element comprising an element behavior that defines the
5 pane element, wherein the pane element is readable from a document by a
6 browser;

7 based at least in part on execution of the pane element, invoking logic
8 associated with the pane element behavior, wherein the logic specifies at least
9 some attributes of a pane and generates an associated hypertext markup language
10 (HTML) element to generate the pane; and
11 generating the pane having the specified attributes.

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13 2. **(Currently Amended)** The computer-executable method as recited in
14 claim 1, wherein the pane element directs a reference to and execution of the
15 associated logic.

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17 3. **(Currently Amended)** The computer-executable method as recited in
18 claim 1, wherein the pane element comprises a tag.

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20 4. **(Currently Amended)** The computer-executable method as recited in
21 claim 1, wherein the pane element comprises an HTML tag.

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23 5. **(Currently Amended)** The computer-executable method as recited in
24 claim 3, wherein executing the tag causes the invoking of the logic.
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2 6. **(Currently Amended)** The computer-executable method as recited in
3 claim 1, wherein the providing provides a document that includes a pane element
4 comprising an element behavior.

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6 7. **(Currently Amended)** The computer-executable method as recited in
7 claim 1, wherein the providing provides a document that includes markup
8 language.

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10 8. **(Currently Amended)** The computer-executable method as recited in
11 claim 1, wherein the logic includes pane-generating instructions.

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13 9. **(Currently Amended)** The computer-executable method as recited in
14 claim 1, wherein the generating generates a viewable pane as an area of a web
15 page.

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17 10. **(Currently Amended)** A computer-executable method, comprising:
18 providing a pane element comprising an element behavior in a web page
19 document for producing a web page; and
20 executing the pane element wherein the executing invokes logic associated
21 with the pane element, wherein the logic specifies at least some attributes of a
22 pane, and
23 wherein the executing generates a pane having the specified attributes.
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1 11. **(Currently Amended)** The computer-executable method as recited in
2 claim 10, wherein the web page document comprises HTML.

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4 12. **(Canceled)**

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6 13. **(Currently Amended)** The computer-executable method as recited in
7 claim 10, wherein the pane element includes pane attributes to determine one of a
8 size, a dimension, a shape, a color, a format, a priority, and a style of the pane.

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10 14. **(Currently Amended)** The computer-executable method as recited in
11 claim 10, wherein the pane element includes associated content capable of being
12 displayed in the pane.

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14 15. **(Currently Amended)** The computer-executable method as recited in
15 claim 14, wherein the display content is one of a text, an image, a link, and a user
16 interface.

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18 16. **(Currently Amended)** The computer-executable method as recited in
19 claim 15, wherein the user interface has interactive controls, wherein a user can
20 provides input in response to the content.

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22 17. **(Currently Amended)** The computer-executable method as recited in
23 claim 14, wherein the pane element includes content attributes to determine one of
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1 a size, a dimension, a shape, a color, a format, a priority, a style, and a font of the
2 content to be displayed in the pane.
3

4 18. **(Currently Amended)** The computer-executable method as recited in
5 claim 17, wherein the pane-generating instructions determine the pane attributes
6 based on the amount of content.
7

8 19. **(Currently Amended)** The computer-executable method as recited in
9 claim 17, wherein the associated logic determines the pane attributes based on the
10 content attributes.
11

12 20. **(Currently Amended)** The computer-executable method as recited in
13 claim 10, further comprising multiple pane elements in the web page document to
14 generate multiple panes in the web page.
15

16 21. **(Currently Amended)** The computer-executable method as recited in
17 claim 20, wherein the associated logic adjusts a first pane depending on a
18 characteristic of a second pane.
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20 22. **(Currently Amended)** The computer-executable method as recited in
21 claim 21, wherein a pane adjusts itself depending on a characteristic or behavior of
22 one or more other panes.
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1 23. **(Currently Amended)** The computer-executable method as recited in
2 claim 21, wherein a first pane adjusts a second pane depending on a characteristic
3 or behavior of the first pane.

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5 24. **(Currently Amended)** The computer-executable method as recited in
6 claim 21, wherein an attribute of the first pane is adjusted based on changing
7 content in the second pane.

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9 25. **(Currently Amended)** The computer-executable method as recited in
10 claim 21, wherein an attribute of content in the first pane is changed based on a
11 change in an attribute of content in the second pane.

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13 26. **(Currently Amended)** The computer-executable method as recited in
14 claim 25, wherein content in the second pane is changed as the content is edited in
15 the first pane.

16
17 27. **(Currently Amended)** The computer-executable method as recited in
18 claim 20, wherein the associated logic assigns a placement to each pane in the web
19 page.

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21 28. **(Currently Amended)** The computer-executable method as recited in
22 claim 27, wherein the placement includes a pane size and a position in the web
23 page.
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1 29. **(Currently Amended)** The computer-executable method as recited in
2 claim 27, wherein the placement of one pane depends at least in part on the
3 placement of remaining panes of the multiple panes.
4

5 30. **(Currently Amended)** The computer-executable method as recited in
6 claim 27, wherein the placement includes a z-order of display priority in response
7 to an overlapping of two or more of the multiple panes, wherein a pane having the
8 highest z-order of display priority is focused by having the remaining panes
9 subordinated to the focused pane by appearing to be displayed behind the focused
10 pane.
11

12 31. **(Currently Amended)** The computer-executable method as recited in
13 claim 30, wherein if one or more of the multiple panes include an interactive user
14 interface, then changing the z-order of display priority to give a highest priority to
15 a pane with an interactive user interface in current use.
16

17 32. **(Currently Amended)** ~~A web page document, comprising:~~
18 A computer-readable medium containing computer executable
19 instructions, including instructions to create:
20 content to be displayed in a web page resulting from rendering ~~the~~ a web
21 page document;
22 markup tags to indicate instructions for displaying the content in the web
23 page; and
24
25

1 a pane element to provide instructions for using a division of a computer
2 display screen, wherein execution of the pane tag causes pane-generating
3 instructions to be substituted for the pane tag; and
4 pane-generating instructions containing at least one element behavior
5 bound to the pane element.

6
7 33. **(Currently Amended)** The ~~web page document~~ computer-readable
8 medium as recited in claim 32, wherein the web page document is an HTML
9 document.

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11 34. **(Canceled)**

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13 35. **(Currently Amended)** The ~~web page document~~ computer-readable
14 medium as recited in claim 32, wherein the pane element includes pane attributes
15 to determine one of a size, a dimension, a shape, a color, a format, a priority, and a
16 style of the pane.

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18 36. **(Currently Amended)** The ~~web page document~~ computer-readable
19 medium as recited in claim 32, wherein the content is one of a text, an image, a
20 link, and a user interface.

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22 37. **(Currently Amended)** The ~~web page document~~ computer-readable
23 medium as recited in claim 36, wherein the pane-generating instructions determine
24 the pane attributes based on attributes of the content.

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2 38. **(Currently Amended)** The ~~web page document~~ computer-readable
3 medium as recited in claim 32, further comprising multiple pane elements in the
4 web page document to generate multiple panes in the web page.

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6 39. **(Currently Amended)** The ~~web page document~~ computer-readable
7 medium as recited in claim 38, wherein a pane-generating instruction adjusts a
8 first pane depending on a characteristic of a second pane.

9
10 40. **(Currently Amended)** The ~~web page document~~ computer-readable
11 medium as recited in claim 39, wherein an attribute of the first pane is adjusted
12 based on changing content in the second pane.

13
14 41. **(Currently Amended)** The ~~web page document~~ computer-readable
15 medium as recited in claim 39, wherein an attribute of content in the first pane is
16 changed based on a change in an attribute of content in the second pane.

17
18 42. **(Currently Amended)** The ~~web page document~~ computer-readable
19 medium as recited in claim 39, wherein content in the second pane is changed as
20 the content is edited in the first pane.

21
22 43. **(Currently Amended)** The ~~web page document~~ computer-readable
23 medium as recited in claim 32, wherein the pane-generating instructions assign a
24 placement on a display screen to each pane in the web page.
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2 **44. (Currently Amended)** The ~~web page document~~ computer-readable
3 medium as recited in claim 43, wherein the placement includes a pane size and a
4 position in the web page.

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6 **45. (Currently Amended)** The ~~web page document~~ computer-readable
7 medium as recited in claim 44, wherein the placement of one pane depends at least
8 in part on the placement of remaining panes of the multiple panes.

9
10 **46. (Currently Amended)** The ~~web page document~~ computer-readable
11 medium as recited in claim 45, wherein the placement includes a z-order of
12 display priority in response to an overlapping of two or more of the multiple
13 panes, wherein a pane having the highest z-order of display priority is focused by
14 having the remaining panes subordinated to the focused pane by appearing to be
15 displayed behind the focused pane.

16
17 **47. (Currently Amended)** A system for creating an element behavior that
18 defines a pane element for a markup language document, comprising:

19 ~~a starting tag including a reference to~~ underlying pane-generating logic
20 bound to the pane element for generating a web page pane, wherein a web browser
21 ~~can find~~ the pane-generating logic using the reference; and

22 a starting tag including a reference for finding the underlying pane-
23 generating logic.

1 ~~optionally, a list of attribute variables, wherein an attribute value can be~~
2 ~~specified and implemented by the underlying pane-generating logic.~~

3
4 48. **(Currently Amended)** The ~~pane element~~ system as recited in claim
5 47, further comprising an ending tag, wherein content for display in the web page
6 pane is includable between the starting tag and the ending tag.

7
8 49. **(Currently Amended)** A computer-executable pane engine,
9 comprising:

10 a pane attribute assignor;
11 a pane sizer; ~~and~~
12 a pane positioner, and
13 wherein a pane element comprising an element behavior
14 and included in a web page document references the pane engine to
15 generate a web page pane.

16
17 50. **(Original)** The pane engine as recited in claim 49, further
18 comprising default pane attributes for generating the web page pane.

19
20 51. **(Original)** The pane engine as recited in claim 50, further
21 comprising an attribute reader to obtain one of pane attributes and content
22 attributes selected by a user.

1 52. **(Original)** The pane engine as recited in claim 49, further
2 comprising a multipane coordinator to generate the web page pane based at least
3 in part on attributes of one or more other web page panes.
4

5 53. **(Original)** The pane engine as recited in claim 52, wherein the
6 multipane coordinator includes a Z-order prioritizer to determine an order of web
7 page panes in a cascaded stack of web page panes appearing on a display screen.
8

9 54. **(Original)** The pane engine as recited in claim 52, further
10 comprising a focus assignor to determine which pane of multiple panes is active or
11 on top of a cascaded stack of web page panes appearing on a display screen.
12

13 55. **(Original)** The pane engine as recited in claim 52, further
14 comprising an attribute interrelation module including a pane attribute analyzer
15 and a content attribute analyzer, wherein a pane attribute of a first pane is
16 determined based on a pane attribute or a content attribute of a second pane.
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18 56. **(Original)** The pane engine as recited in claim 52, further
19 comprising a dynamic content linker to enable changes in a content of a first pane
20 to affect display of a content in a second pane.
21

22 57. **(Original)** The pane engine as recited in claim 52, further
23 comprising a common resource linker, wherein changes in content in the common
24 resource are simultaneously displayed in two or more panes.
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2 **58. (Currently Amended)** One or more computer readable media
3 containing instructions that are executable by a computer to perform actions,
4 comprising:

5 executing language elements in a markup language document to generate a
6 web page; and

7 executing a pane element comprising an element behavior in the markup
8 language document to generate a web page pane, wherein a web page pane is a
9 division of a computer display screen, and wherein execution of the pane element
10 causes pane-generating instructions written in the markup language to be
11 substituted for the pane element.

12
13 **59. (Original)** The one or more computer readable media as recited in
14 claim 58, wherein the markup language document is an HTML document.

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16 **60. (Canceled)**

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18 **61. (Currently Amended)** A computer-executable method, comprising:
19 providing a markup language tag comprising an element behavior for
20 creating a pane in a web page;
21 based at least in part on execution of the tag, invoking logic associated with
22 the tag wherein the logic specifies at least some attributes of a pane; and
23 generating the pane having the specified attributes.
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1 **62. (Currently Amended)** The computer-executable method as recited in
2 claim 61, wherein the tag comprising an element behavior directs a reference to
3 and execution of the associated logic.

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5 **63. (Currently Amended)** The computer-executable method as recited in
6 claim 61, wherein the markup language is a hypertext markup language.

7
8 **64. (Currently Amended)** The computer-executable method as recited in
9 claim 61, wherein the providing provides a document that includes the tag.

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11 **65. (Currently Amended)** The computer-executable method as recited in
12 claim 61, wherein the providing provides a document that includes markup
13 language.

14
15 **66. (Currently Amended)** The computer-executable method as recited in
16 claim 61, wherein the logic includes pane-generating instructions.

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18 **67. (Currently Amended)** The computer-executable method as recited in
19 claim 61, wherein the generating generates a viewable pane as an area of a web
20 page.

21 **68. (New)** The system as recited in claim 47, wherein a list of attribute
22 variables exist where an attribute value can be specified and implemented by the
23 underlying pane-generating logic.
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